

TITLE: TELEPHONE LINE POWER SUPPLY

ABSTRACT OF THE DISCLOSURE

5 A telephone line driven power supply and power supply method capable of creating
high yield, low voltage power using power drawn from a telephone line and supplementing
the low voltage power with power from a battery-powered host device, such as a laptop PC,
when the voltage level falls below a predetermined voltage level. The telephone line power
supply includes a polarity guard, a gyrator, an oscillator, a pulse circuit, an inductor, a startup
circuit, a converter, a shunt regulator, and a combiner circuit. The method includes
10 supplying line power from power drawn from a telephone line, receiving host power from a
host device, supplying the line power to an electrical device, and supplementing the line
power with the host power when the voltage level of the line power falls below a
predetermined level.